



FIG. 1

Sample	15 min saline		15 min urine		1 hr urine		24 hr urine	
	Cl. Wt.	Cl. Str.	Cl. Wt.	Cl. Str.	Cl. Wt.	Cl. Str.	Cl. Wt.	Cl. Str.
A								
Control-	27.66	0.94	26.82	0.91	26.15	1.10	20.74	1.51
Blm 75/25	27.72	0.93	26.85	0.92	26.29	1.04	20.79	1.66
scoop blend	27.53	0.96	26.97	0.95	26.37	1.04	20.11	1.97
avg.	27.64	0.94	26.88	0.93	26.27	1.06	20.55	1.74
B								
CMS prototype	32.95	1.17	32.04	0.93	32.27	1.23	28.52	7.13
# 2	32.97	1.26	31.54	1.16	31.23	0.95	27.38	7.80
	32.92	1.10	32.18	1.11	32.00	1.21	27.22	6.02
avg.	32.95	1.18	31.92	1.07	31.83	1.13	27.71	6.98
C								
CMS prototype	32.61	1.12	33.17	1.31	31.44	1.44	27.59	6.80
# 3	32.74	1.42	33.65	1.29	28.99	1.09	27.08	5.81
	32.43	1.16	33.94	1.35	32.10	1.26	26.94	3.74
avg.	32.59	1.23	33.59	1.32	30.84	1.26	27.20	5.45
D								
CMS prototype	32.20	1.38	32.43	1.06	30.78	1.09	26.78	3.29
# 4	31.86	1.25	33.16	1.59	31.84	1.66	26.96	3.03
	31.53	1.37	32.07	1.68	32.42	1.22	27.50	4.88
avg.	31.86	1.33	32.55	1.44	31.68	1.32	27.08	3.73
E								
CMS prototype	33.36	1.14	35.09	1.41	35.24	1.25	31.23	5.59
# 7	34.37	1.23	34.61	1.26	35.43	1.69	29.45	3.66
	34.33	1.25	34.69	1.52	34.38	0.97	27.94	3.46
avg.	34.02	1.21	34.80	1.40	35.02	1.30	29.54	4.24
F								
CMS prototype	34.62	1.52	34.76	1.25	32.97	0.97	29.78	4.93
# 8	34.17	1.23	35.34	1.45	34.17	1.02	29.64	4.48
	34.47	1.21	35.41	0.94	33.79	1.58	27.76	3.69
avg.	34.42	1.32	35.17	1.21	33.64	1.19	29.06	4.37

Note: Standardized male urine (sp. Gr. 1.050) was used for all urine clump strength testing.

2 % Saline solution was used for all saline clump testing.

CMS Prototype Samples B through F are 70.0% Seed Base produced from by-product dust, and 30.0 % 200 mesh Bentonite coating powder

FIG. 2

A			B			C		
Screen Analysis			Screen Analysis			Screen Analysis		
mesh	grams	%	mesh	grams	%	mesh	grams	%
8	0	0	8	76.5	20.1	8	52.1	13.1
12	0.8	0.2	12	195.4	51.3	12	197.7	49.8
14	3.8	0.9	14	83.2	21.9	14	105.6	26.6
20	141	35.1	20	18.2	4.8	20	16.6	4.2
40	214.6	53.5	40	0.7	0.2	40	0.4	0.1
50	33.4	8.3	50	0	0	50	0	0
pan	7.8	1.9	pan	6.6	1.7	pan	24.9	6.3
<i>Fin.Wt.</i>	401.4		<i>Fin.Wt.</i>	380.6		<i>Fin.Wt.</i>	397.3	

D			E			F		
Screen Analysis			Screen Analysis			Screen Analysis		
mesh	grams	%	mesh	grams	%	mesh	grams	%
8	66.5	16.2	8	25.2	6.6	8	48.5	12.6
12	220.9	53.7	12	174.3	45.5	12	195.3	50.8
14	83.1	20.2	14	108.3	28.3	14	87.2	22.7
20	17.8	4.3	20	53.6	14	20	36.9	9.6
40	0.4	0.1	40	5	1.3	40	3.4	0.9
50	0	0	50	1.1	0.3	50	0.1	0
pan	22.7	5.5	pan	15.8	4.1	pan	13.3	3.5
<i>Fin.Wt.</i>	411.4		<i>Fin.Wt.</i>	383.3		<i>Fin.Wt.</i>	384.7	

Sample	Bulk Density (lbs./cu. Ft.)	Moisture (percent)
A	55.8	6.21
B	46.6	9.75
C	47.5	6.65
D	45.9	5.65
E	49.2	7.96
F	48.9	8.62

FIG. 3